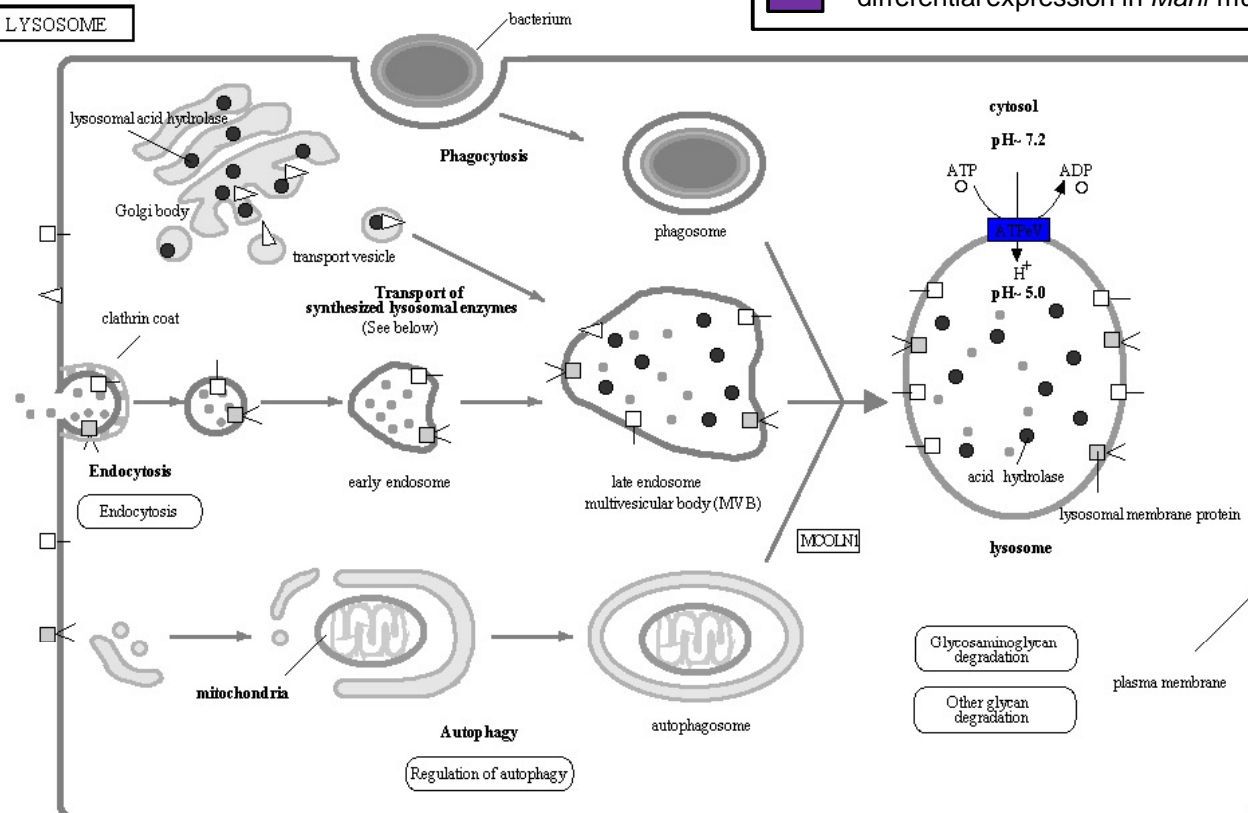


LYSOSOME



- downregulated in *Manf*^{A96} mutant
- upregulated in *Manf*^{A96} mutant
- differential expression in *Manf* mutants
- *Drosophila* homolog unknown
- *Drosophila* homolog known

Lysosomal acid hydrolases

proteases			
cathepsins	napsin	LGMN	TPP1
glycosidases			
GLA	GLB	GAA	GBA
GLA	GLB	IDUA	
NAGA	NAGLU	GALC	GUSE
NAGA	NAGLU	FUCA1	
HEXA/B	MANB	LAMAN	NEU1
HEXA/B	MANB	HYAL1	
sulfatases			
AR3	GALNS	GNS	IDS
AR3	AR3		
lipases			
LIPA	XPLA3	DNaseII	ACP2
LIPA	XPLA3	DNaseII	ACP5
nuclease			
phosphatase			
sphingomyelinase			
SMPD1	ASAHI	aspartylglucosaminidase	
SMPD1	ASAHI	AGA	
Other lysosomal enzymes and activators			
asposin	GM2A	CLN1	

Lysosomal membrane proteins

major lysosomal membrane proteins			
LAMP	LAMP		
minor lysosomal membrane proteins			
NPC	lysosomal	sialin	NRAMP
ABCA2	ABCB9	ACP2	LAPTM
sortilin	CLN3	CLN5	endolym
MOCLN1		CLN7	LALP70
			H3SNAT

